Name: Date: Period:

Microorganism Study Guide

Matching: Match the characteristic to its group

A. Bacteria 1. \_\_\_ living and nonliving

2. \_\_\_ live in warm and moist surroundings

3. \_\_\_ prokaryotic

B. Virus 4. \_\_\_ live everywhere

5. \_\_\_ some consumers, but most decomposers

6. \_\_\_ shapes are coccus, bacillus, and spirillum

C. Protists 7. \_\_\_ has three types

8. \_\_\_ structure is genetic material and a capsid

9. \_\_\_ reproduce through binary fission

D. Fungi 10. \_\_\_ reproduce sexually and asexually

11. \_\_\_ reproduce with spores

12. \_\_\_ live in water

13. \_\_\_ obtain energy three ways: pro, dec, parasite

Multiple Choice: Circle the group that the following examples belong to

1. Chickenpox

A) bacteria B) virus C) protist D) fungi

2. Penicillum

A) bacteria B) virus C) protist D) fungi

3. Salmonella

A) bacteria B) virus C) protist D) fungi

4. Strep throat

A) bacteria B) virus C) protist D) fungi

5. Flu

A) bacteria B) virus C) protist D) fungi

6. Mildew

A) bacteria B) virus C) protist D) fungi

7. Stemonitis

A) bacteria B) virus C) protist D) fungi

8. Algae

A) bacteria B) virus C) protist D) fungi

9. MMR

A) bacteria B) virus C) protist D) fungi

10. e. coli

A) bacteria B) virus C) protist D) fungi

11. Athlete’s foot

A) bacteria B) virus C) protist D) fungi

12. euglena

A) bacteria B) virus C) protist D) fungi

Definitions:

1. binary fission –

2. pathogen –

3. antibiotic –

4. epidemic –

5. vaccine –

6. hyphae –

7. pioneer species –

Draw and label the structure of bacteria:

List 3 ways bacteria can be good:

Draw and explain viral reproduction:

List 5 ways to transmit disease:

Explain how fungi are different from plants:

List 4 ways fungus is important:

Explain what a lichen is:

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Definitions:

1. binary fission – **splitting into 2 parts**

2. pathogen – **organism that causes disease**

3. antibiotic – **medicine used to kill bacteria**

4. epidemic – **rapid spread of disease through a large area**

5. vaccine – **weakened form of a pathogen to create resistance to that disease**

6. hyphae – **chains of cells similar to plant roots**

7. pioneer species – **1st organism to appear after a weather disruption**

Draw and label the structure of bacteria:

List 3 ways bacteria can be good:

**Medicine, food, provide oxygen, decomposer, bioremediation, in our bodies**

Draw and explain viral reproduction:

**Virus attaches, virus injects gm, gm takes over and produces virus’ material, viruses burst out and move elsewhere**

List 5 ways to transmit disease:

**Air, water, carrier, food, bodily fluids**

Explain how fungi are different from plants:

**Lack specialized tissues and organs like roots and leaves**

List 4 ways fungus is important:

**Decomposers, medicine, food/baking, lichen**

Explain what a lichen is:

**Fungus + algae; pioneer species; indicator of air pollution**